

BRANDT ET AL.
"Reselection Optimization in Mobile Wireless
Communication Devices And Methods Therefor"
Atty. Docket No. CS20456RL

Appl. No. 10/074,970
Confirm. No. 6905
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Claims 1-20 stand rejected under 35 USC 102(e) as being anticipated by U.S. Patent No. 6,278,703 (New). Office Action, 18 June 2004.

Summary of New

New discloses

Patentability of Claim 1

Regarding independent Claim 1, contrary to the Examiner's assertion, New does not disclose or suggest a

... method in a mobile wireless communication device, comprising:
receiving present paging information;
performing present signal measurements while receiving the present paging information;
performing present reselection processing on prior signal measurements while performing present signal measurements.

New discloses in FIG. 4 (referenced by the Examiner) that, during active state (416), a remote terminal evaluates (based on power measurements) a base station (2) as a possible handoff candidate. There is no indication however that New receives present paging information while performing present signal measurements, i.e., while evaluating base station (2) as a handoff candidate during active state (416). Then during time period (T_{CR1}) of a subsequent active state 426, the remote terminal performs reacquisition using a reacquisition search list including base stations (1 & 2). After selecting a base station, New discloses demodulating the paging channel of the selected base

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station. Thus New does not receive paging information (i.e., demodulate the paging channel) until after reacquisition. Also, there is no indication that New performs present signal measurements during reacquisition in block (426). Claim 1 and the claims that depend therefrom are thus patentably distinguished over New.

Patentability of Claim 2

Regarding Claim 2, New does not disclose or suggest, in combination with the limitations of Claim 1

... performing the prior signal measurements while receiving prior paging information before receiving the present paging information.

Contrary to the Examiner's assertion, New does not disclose receiving paging information while obtaining the previous power measurements (used to evaluate the base station as a handoff candidate.). As noted above, New does not demodulate the paging channel, until after reacquisition. See New at col. 9: 66 - col. 10: 9. Claim 2 is thus further patentably distinguished over New.

Patentability of Claim 3

Regarding Claim 3, New does not disclose or suggest in combination with the limitations of Claim 1 and any intervening claims.

... reducing power consumption by performing the present reselection processing on the prior signal measurements while

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receiving the present paging information, performing the prior signal measurements while receiving prior paging information before receiving the present paging information.

New cannot reduce power as claimed because New does not reacquire while receiving present paging information. New discloses demodulating the paging channel after reacquisition. Claim 3 is thus further patentably distinguished over New.

Patentability of Claim 4

Regarding Claim 4, New does not disclose or suggest, in combination with the limitations of Claim 1

... reducing power consumption by performing the present reselection processing, based upon the prior signal measurements, and receiving the present paging information in a substantially overlapping time period.

Contrary to the Examiner's assertion, New does not reduce power consumption as claimed since New does not perform reselection processing and receiving paging information during an overlapping time period. Claim 4 is thus further patentably distinguished over New.

Patentability of Claim 5

Regarding Claim 5, contrary to the Examiner's assertion, New does not disclose or suggest in combination with the limitations of Claim 1,

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... entering a minimal power consumption mode while not receiving paging information and not performing signal measurements and not performing reselection processing.

Claim 5 is thus further patentably distinguished over New.

Patentability of Claim 6

Regarding Claim 6, New does not disclose or suggest, in combination with the limitations of Claim 1,

... maximizing minimal power consumption mode operation by performing the reselection processing while substantially concurrently receiving the paging information.

Contrary to the Examiner's assertion, New does not perform reselection processing and receive paging information concurrently. New performs reacquisition before the paging information is demodulated. See New at col. 9: 66 - col. 10: 9. Claim 6 is thus further patentably distinguished over New.

Patentability of Claim 7

Regarding Claim 7, New does not disclose or suggest, in combination with the limitations of Claim 1,

... receiving present paging information, performing present signal measurements, and performing reselection processing while operating the wireless communication device in idle mode.

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Contrary to the Examiner's assertion, New performs signal measurements and receives paging information during active states (at blocks 416 and 426 in FIG. 4.). Claim 7 is thus further patentably distinguished over New.

Patentability of Claim 8

Regarding independent Claim 8, contrary to the Examiner's assertion, New does not disclose or suggest a

... method in a mobile wireless communication device that receives paging information and performs neighbor signal measurements, comprising:

- receiving present paging information;
- performing present signal measurements while receiving the present paging information;
- performing reselection processing while receiving present paging information;
- reducing power consumption by performing the reselection processing on prior signal measurements performed while receiving prior paging information.

There is no indication that New receives present paging information while performing present signal measurements, i.e., while evaluating base station (2) as a handoff candidate during active state (416). Also, there is no indication that New performs present signal measurements during reacquisition in block (426). New does not reduce power consumption as claimed since New does not perform reselection processing while receiving paging information. New performs reacquisition before the paging information is demodulated. See New at col. 9: 66 - col. 10: 9. Claim 8 and the claims that depend therefrom are thus patentably distinguished over New.

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Patentability of Claim 9

Regarding Claim 9, contrary to the Examiner's assertion, New does not disclose or suggest, in combination with the limitations of Claim 8,

... entering a minimal power consumption mode when not receiving paging information and not performing signal measurements and not performing reselection processing.

Claim 9 is thus further patentably distinguished over New.

Patentability of Claim 10

Regarding Claim 10, contrary to the Examiner's assertion, New does not disclose, in combination with the limitations of Claim 8,

... maximizing minimal power consumption mode operation by performing the reselection processing while substantially concurrently receiving the paging information.

Contrary to the Examiner's assertion, New does not perform reselection processing and receive paging information substantially concurrently. New performs reacquisition before the paging information is demodulated. See New at col. 9: 66 - col. 10: 9. Claim 10 is thus further patentably distinguished over New.

Patentability of Claim 11

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Regarding Claim 11, New does not disclose or suggest, in combination with the limitations of Claim 8,

... receiving present paging information, performing present signal measurements, and performing reselection processing while operating the wireless communication device in idle mode.

Contrary to the Examiner's assertion, New performs signal measurements and receives paging information during active states (at blocks 416 and 426 in FIG. 4.). Claim 11 is thus further patentably distinguished over New.

Patentability of Claim 12

Regarding independent Claim 12, contrary to the Examiner's assertion, New does not disclose or suggest a

... method in a wireless communication device, comprising:
receiving periodic paging information;
performing periodic signal measurements;
performing periodic reselection processing;
reducing power consumption by receiving at least a portion of the periodic paging information concurrently with performing at least a portion of the periodic signal measurements and performing at least a portion of the periodic reselection processing.

There is no indication that New receives periodic paging information while concurrently performing periodic signal measurements, i.e., while evaluating base station (2) as a handoff candidate during active state (416). New performs reacquisition before the paging information is

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demodulated. See New at col. 9: 66 - col. 10: 9. Therefore New does not suggest reducing power consumption as claimed. Claim 12 is thus patentably distinguished over New.

Patentability of Claim 13

Regarding Claim 13, New does not disclose or suggest, in combination with the limitations of Claim 12,

... performing present reselection processing on prior signal measurements while performing present signal measurements

Contrary to the Examiner's assertion, New does not perform reselection processing on prior signal measurements while performing time present signal measurements. Claim 13 is thus further patentably distinguished over New.

Patentability of Claim 14

Regarding Claim 14, contrary to the Examiner's assertion, New does not disclose or suggest, in combination with the limitations of Claim 12,

... operating in a minimal power consumption mode when not receiving periodic paging information and not performing periodic signal measurements and not performing periodic reselection processing

Claim 14 is thus further patentably distinguished over New.

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Patentability of Claim 15

Regarding independent Claim 15, New does not disclose or suggest a

... method in a TDMA wireless communication device that receives periodic paging blocks and performs periodic neighbor signal measurements, comprising:
receiving a present paging block;
performing present neighbor cell signal strength measurements while receiving the present paging block;
performing reselection processing for prior neighbor cell signal strength measurements while receiving the present paging block and performing the present neighbor cell signal strength measurements.

Contrary to the Examiner's assertion, there is no indication that New receives a present paging block while performing present neighbor signal measurements, i.e., while evaluating base station (2) as a handoff candidate during active state (416). There is also no indication that New performs present signal measurements during reacquisition in block (426). New demodulates the paging channel after reacquisition. Claim 15 and the claims that depend therefrom are thus patentably distinguished over New.

Patentability of Claim 16

Regarding Claim 16, contrary to the Examiner's assertion, New does not disclose, in combination with the limitations of Claim 15,

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... reducing power consumption by operating in a minimal power consumption mode when not receiving periodic paging blocks and not performing periodic neighbor cell signal strength measurements and not performing reselection processing

Claim 16 is thus further patentably distinguished over New.

Patentability of Claim 17

Regarding Claim 17, contrary to the Examiner's assertion, New does not disclose

... reducing power consumption by receiving at least a portion of the periodic paging blocks, performing at least a portion of the periodic neighbor cell signal strength measurements, and performing at least a portion of the reselection processing concurrently.

Contrary to the Examiner's assertion, New does not perform reselection processing and receive paging information substantially concurrently. New performs reacquisition before the paging information is demodulated. See New at col. 9: 66 - col. 10: 9. Claim 17 is thus further patentably distinguished over New.

Patentability of Claim 18

Regarding independent Claim 18, New does not disclose or suggest a

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... method in a WCDMA wireless communication device that receives periodic paging indicator channel blocks and performs periodic reselection processing, comprising:
receiving a present paging indicator channel block;
performing present signal measurements while receiving the present paging indicator channel block;
performing reselection processing for prior signal measurements while receiving the present paging indicator channel block and performing the present signal measurements.

Contrary to the Examiner's assertion, there is no indication that New receives a present paging indicator channel block while performing present neighbor signal measurements, i.e., while evaluating base station (2) as a handoff candidate during active state (416). There is also no indication that New performs present signal measurements during reacquisition in block (426). New demodulates the paging channel after reacquisition. Claim 18 and the claims that depend therefrom are thus patentably distinguished over New.

Patentability of Claim 19

Regarding Claim 19, contrary to the Examiner's assertion, New does not disclose, in combination with the limitations of Claim 19,

... reducing power consumption by operating in a minimal power consumption mode when not receiving periodic paging indicator blocks and when not performing periodic signal measurements and not performing reselection processing

Claim 19 is thus further patentably distinguished over New.

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Patentability of Claim 20

Regarding Claim 20, contrary to the Examiner's assertion, New does not disclose, in combination with the limitations of Claim 15,

... performing signal measurements between receiving periodic paging indicator blocks when the period between the periodic paging indicator blocks is greater than a predetermined period.

Claim 20 is thus further patentably distinguished over New.